

PF-0489-1 CON

<110> Tang, Y. Tom  
Bandman, Olga  
Lal, Preeti  
Hillman, Jennifer L.  
Yue, Henry  
Corley, Neil C.  
Guegler, Karl J.  
Kaser, Matthew R.  
Baughn, Mariah R.  
Shah, Purvi

<120> HUMAN MEMBRANE-SPANNING PROTEINS

<130> PF-0489-1 CON

<140> To Be Assigned

<141> Herewith

<150> 09/039,307

<151> 1998 March 13

<160> 34

<170> PERL Program

<210> 1

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 77138

<400> 1

Met	Leu	Thr	Pro	Leu	Gly	Lys	Phe	Ser	Thr	Ala	Lys	Phe	Ala	Val
1				5					10					15
Arg	Leu	Pro	Arg	Val	Trp	Glu	Ala	Arg	Ala	Pro	Ser	Leu	Ser	Gly
				20					25					30
Ala	Pro	Ala	Pro	Thr	Pro	Pro	Ala	Pro	Pro	Pro	Ser	Arg	Ser	Ser
				35					40					45
Arg	Leu	Gly	Leu	Trp	Pro	Arg	Cys	Phe	Leu	Ile	Phe	Pro	Gln	Leu
				50					55					60
Arg	Ile	Leu	Leu	Leu	Gly	Pro	Gln	Glu	Ser	Asn	Asn	Ser	Thr	Gly
				65					70					75
Thr	Met	Trp	Lys	Val	Ser	Ala	Leu	Leu	Phe	Val	Leu	Gly	Ser	Ala
				80					85					90
Ser	Leu	Trp	Val	Leu	Ala	Glu	Gly	Ala	Ser	Thr	Gly	Gln	Pro	Glu
				95					100					105
Asp	Asp	Thr	Glu	Thr	Thr	Gly	Leu	Glu	Gly	Gly	Val	Ala	Met	Pro
				110					115					120
Gly	Ala	Glu	Asp	Asp	Val	Val	Thr	Pro	Gly	Thr	Ser	Glu	Asp	Arg
				125					130					135
Tyr	Lys	Ser	Gly	Leu	Thr	Thr	Leu	Val	Ala	Thr	Ser	Val	Asn	Ser
				140					145					150
Val	Thr	Gly	Ile	Arg	Ile	Glu	Asp	Leu	Pro	Thr	Ser	Glu	Ser	Thr
				155					160					165
Val	His	Ala	Gln	Glu	Gln	Ser	Pro	Ser	Ala	Thr	Ala	Ser	Asn	Val
				170					175					180
Ala	Thr	Ser	His	Ser	Thr	Glu	Lys	Val	Asp	Gly	Asp	Thr	Gln	Thr
				185					190					195
Thr	Val	Glu	Lys	Asp	Gly	Leu	Ser	Thr	Val	Thr	Leu	Val	Gly	Ile

PF-0489-1 CON

Ile	Val	Gly	Val	200	Leu	Leu	Ala	Ile	Gly	205	Phe	Ile	Gly	Gly	Ile	210
				215						220						225
Val	Val	Val	Met	Arg	Lys	Met	Ser	Gly	Arg	Tyr	Ser	Pro				
				230						235						

<210> 2  
<211> 83  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1381884

Met	Met	Val	Thr	Val	Val	Leu	His	Leu	Ala	Phe	Gly	Gln	Arg	Leu		
1				5					10					15		
Ile	Asp	Phe	Ser	His	His	His	Thr	Val	Ser	Asn	Ile	Leu	Phe	His		
				20					25					30		
Cys	Ala	Leu	Ile	Leu	Cys	Lys	Lys	Glu	Pro	Gly	Ala	Lys	Ile	Ser		
				35					40					45		
Arg	Gly	Ala	Lys	Gly	Lys	Lys	Glu	Glu	Lys	Gln	Glu	Ala	Gly	Lys		
				50					55					60		
Glu	Gly	Thr	Ala	Pro	Ser	Glu	Asn	Gly	Glu	Thr	Lys	Ala	Glu	Glu		
				65					70					75		
Val	Leu	Ser	Ile	Asn	Thr	Ser	His									
				80												

<210> 3  
<211> 515  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1427590

Met	Ala	Ala	Ala	Gln	Glu	Ala	Asp	Gly	Ala	Arg	Ser	Ala	Val	Val		
1				5					10					15		
Ala	Ala	Gly	Gly	Gly	Ser	Ser	Gly	Gln	Val	Thr	Ser	Asn	Gly	Ser		
				20					25					30		
Ile	Gly	Arg	Asp	Pro	Pro	Ala	Glu	Thr	Gln	Pro	Gln	Asn	Pro	Pro		
				35					40					45		
Ala	Gln	Pro	Ala	Pro	Asn	Ala	Trp	Gln	Val	Ile	Lys	Gly	Val	Leu		
				50					55					60		
Phe	Arg	Ile	Phe	Ile	Ile	Trp	Ala	Ile	Ser	Ser	Trp	Phe	Arg	Arg		
				65					70					75		
Gly	Pro	Ala	Pro	Gln	Asp	Gln	Ala	Gly	Pro	Gly	Gly	Ala	Pro	Arg		
				80					85					90		
Val	Ala	Ser	Arg	Asn	Leu	Phe	Pro	Lys	Asp	Thr	Leu	Met	Asn	Leu		
				95					100					105		
His	Val	Tyr	Ile	Ser	Glu	His	Glu	His	Phe	Thr	Asp	Phe	Asn	Ala		
				110					115					120		
Thr	Ser	Ala	Leu	Phe	Trp	Glu	Gln	His	Asp	Leu	Val	Tyr	Gly	Asp		
				125					130					135		
Trp	Thr	Ser	Gly	Glu	Asn	Ser	Asp	Gly	Cys	Tyr	Glu	His	Phe	Ala		
				140					145					150		
Glu	Leu	Asp	Ile	Pro	Gln	Ser	Val	Gln	Gln	Asn	Gly	Ser	Ile	Tyr		
				155					160					165		

PF-0489-1 CON

Ile	His	Val	Tyr	Phe	Thr	Lys	Ser	Gly	Phe	His	Pro	Asp	Pro	Arg	
				170					175					180	
Gln	Lys	Ala	Leu	Tyr	Arg	Arg	Leu	Ala	Thr	Val	His	Met	Ser	Arg	
				185					190					195	
Met	Ile	Asn	Lys	Tyr	Lys	Arg	Arg	Arg	Phe	Gln	Lys	Thr	Lys	Asn	
				200					205					210	
Leu	Leu	Thr	Gly	Glu	Thr	Glu	Ala	Asp	Pro	Glu	Met	Ile	Lys	Arg	
				215					220					225	
Ala	Glu	Asp	Tyr	Gly	Pro	Val	Glu	Val	Ile	Ser	His	Trp	His	Pro	
				230					235					240	
Asn	Ile	Thr	Ile	Asn	Ile	Val	Asp	Asp	His	Thr	Pro	Trp	Val	Lys	
				245					250					255	
Gly	Ser	Val	Pro	Pro	Pro	Leu	Asp	Gln	Tyr	Val	Lys	Phe	Asp	Ala	
				260					265					270	
Val	Ser	Gly	Asp	Tyr	Tyr	Pro	Ile	Ile	Tyr	Phe	Asn	Asp	Tyr	Trp	
				275					280					285	
Asn	Leu	Gln	Lys	Asp	Tyr	Tyr	Pro	Ile	Asn	Glu	Ser	Leu	Ala	Ser	
				290					295					300	
Leu	Pro	Leu	Arg	Val	Ser	Phe	Cys	Pro	Leu	Ser	Leu	Trp	Arg	Trp	
				305					310					315	
Gln	Leu	Tyr	Ala	Ala	Gln	Ser	Thr	Lys	Ser	Pro	Trp	Asn	Phe	Leu	
				320					325					330	
Gly	Asp	Glu	Leu	Tyr	Glu	Gln	Ser	Asp	Glu	Glu	Gln	Asp	Ser	Val	
				335					340					345	
Lys	Val	Ala	Leu	Leu	Glu	Thr	Asn	Pro	Tyr	Leu	Leu	Ala	Leu	Thr	
				350					355					360	
Ile	Ile	Val	Ser	Ile	Val	His	Ser	Val	Phe	Glu	Phe	Leu	Ala	Phe	
				365					370					375	
Lys	Asn	Asp	Ile	Gln	Phe	Trp	Asn	Ser	Arg	Gln	Ser	Leu	Glu	Gly	
				380					385					390	
Leu	Ser	Val	Arg	Ser	Val	Phe	Phe	Gly	Val	Phe	Gln	Ser	Phe	Val	
				395					400					405	
Val	Leu	Leu	Tyr	Ile	Leu	Asp	Asn	Glu	Thr	Asn	Phe	Val	Val	Gln	
				410					415					420	
Val	Ser	Val	Phe	Ile	Gly	Val	Leu	Ile	Asp	Leu	Trp	Lys	Ile	Thr	
				425					430					435	
Lys	Val	Met	Asp	Val	Arg	Leu	Asp	Arg	Glu	His	Arg	Val	Ala	Gly	
				440					445					450	
Ile	Phe	Pro	Arg	Leu	Ser	Phe	Lys	Asp	Lys	Ser	Thr	Tyr	Ile	Glu	
				455					460					465	
Ser	Ser	Thr	Lys	Val	Tyr	Asp	Asp	Met	Ala	Phe	Arg	Tyr	Leu	Ser	
				470					475					480	
Trp	Ile	Leu	Phe	Pro	Ser	Trp	Ala	Ala	Met	Pro	Ser	Thr	Val	Phe	
				485					490					495	
Cys	Thr	Trp	Ser	Thr	Arg	Ala	Gly	Thr	Pro	Gly	Cys	Ser	Ala	Cys	
				500					505					510	
Ser	Thr	Ala	Ser	Cys											
				515											

<210> 4  
 <211> 495  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1457779

<400> 4  
 Met Gly Leu Ser Arg Lys Glu Gln Val Phe Leu Ala Leu Leu Gly  
 1 5 10 15

Ala	Ser	Gly	Val	Ser	Gly	Leu	Thr	Ala	Leu	Ile	Leu	Leu	Leu	Val
				20					25					30
Glu	Ala	Thr	Ser	Val	Leu	Leu	Pro	Thr	Asp	Ile	Lys	Phe	Gly	Ile
				35					40					45
Val	Phe	Asp	Ala	Gly	Ser	Ser	His	Thr	Ser	Leu	Phe	Leu	Tyr	Gln
				50					55					60
Trp	Pro	Ala	Asn	Lys	Glu	Asn	Gly	Thr	Gly	Val	Val	Ser	Gln	Ala
				65					70					75
Leu	Ala	Cys	Gln	Val	Glu	Gly	Pro	Gly	Ile	Ser	Ser	Tyr	Thr	Ser
				80					85					90
Asn	Ala	Ala	Gln	Ala	Gly	Glu	Ser	Leu	Gln	Gly	Cys	Leu	Glu	Glu
				95					100					105
Ala	Leu	Val	Leu	Ile	Pro	Glu	Ala	Gln	His	Arg	Lys	Thr	Pro	Thr
				110					115					120
Phe	Leu	Gly	Ala	Thr	Ala	Gly	Met	Arg	Leu	Leu	Ser	Arg	Lys	Asn
				125					130					135
Ser	Ser	Gln	Ala	Arg	Asp	Ile	Phe	Ala	Ala	Val	Thr	Gln	Val	Leu
				140					145					150
Gly	Arg	Ser	Pro	Val	Asp	Phe	Trp	Gly	Ala	Glu	Leu	Leu	Ala	Gly
				155					160					165
Gln	Ala	Glu	Gly	Ala	Phe	Gly	Trp	Ile	Thr	Val	Asn	Tyr	Gly	Leu
				170					175					180
Gly	Thr	Leu	Val	Lys	Tyr	Ser	Phe	Thr	Gly	Glu	Trp	Ile	Gln	Pro
				185					190					195
Pro	Glu	Glu	Met	Leu	Val	Gly	Ala	Leu	Asp	Met	Gly	Gly	Ala	Ser
				200					205					210
Thr	Gln	Ile	Thr	Phe	Val	Pro	Gly	Gly	Pro	Ile	Leu	Asp	Lys	Ser
				215					220					225
Thr	Gln	Ala	Asp	Phe	Arg	Leu	Tyr	Gly	Ser	Asp	Tyr	Ser	Val	Tyr
				230					235					240
Thr	His	Ser	Tyr	Leu	Cys	Phe	Gly	Arg	Asp	Gln	Met	Leu	Ser	Arg
				245					250					255
Leu	Leu	Val	Gly	Leu	Val	Gln	Ser	Arg	Pro	Ala	Ala	Leu	Leu	Arg
				260					265					270
His	Pro	Cys	Tyr	Leu	Ser	Gly	Tyr	Gln	Thr	Thr	Leu	Ala	Leu	Gly
				275					280					285
Pro	Leu	Tyr	Glu	Ser	Pro	Cys	Val	His	Ala	Thr	Pro	Pro	Leu	Ser
				290					295					300
Leu	Pro	Gln	Asn	Leu	Thr	Val	Glu	Gly	Thr	Gly	Asn	Pro	Gly	Ala
				305					310					315
Cys	Val	Ser	Ala	Ile	Arg	Glu	Leu	Phe	Asn	Phe	Ser	Ser	Cys	Gln
				320					325					330
Gly	Gln	Glu	Asp	Cys	Ala	Phe	Asp	Gly	Val	Tyr	Gln	Pro	Pro	Leu
				335					340					345
Arg	Gly	Gln	Phe	Tyr	Ala	Phe	Ser	Asn	Phe	Tyr	Tyr	Thr	Phe	His
				350					355					360
Phe	Leu	Asn	Leu	Thr	Ser	Arg	Gln	Pro	Leu	Ser	Thr	Val	Asn	Ala
				365					370					375
Thr	Ile	Trp	Glu	Phe	Cys	Gln	Arg	Pro	Trp	Lys	Leu	Val	Glu	Ala
				380					385					390
Ser	Tyr	Pro	Gly	Gln	Asp	Arg	Trp	Leu	Arg	Asp	Tyr	Cys	Ala	Ser
				395					400					405
Gly	Leu	Tyr	Ile	Leu	Thr	Leu	Leu	His	Glu	Gly	Tyr	Gly	Phe	Ser
				410					415					420
Glu	Glu	Thr	Trp	Pro	Ser	Leu	Glu	Phe	Arg	Lys	Gln	Ala	Gly	Gly
				425					430					435
Val	Asp	Ile	Gly	Trp	Thr	Leu	Gly	Tyr	Met	Leu	Asn	Leu	Thr	Gly
				440					445					450
Met	Ile	Pro	Ala	Asp	Ala	Pro	Ala	Gln	Trp	Arg	Ala	Glu	Ser	Tyr
				455					460					465
Gly	Val	Trp	Val	Ala	Lys	Val	Val	Phe	Met	Val	Leu	Ala	Leu	Val

**090303**

```
<210> 5
<211> 156
<212> PRT
<213> Homo sapiens
```

[illegible]

```
<210> 6
<211> 358
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<223> Incyte ID No: 1487802
```

5



PF-0489-1 CON

	110		115		120
Asp Ser Leu Ala	Leu Leu Cys Gln Trp	Ile Gln Ser Lys Leu	Gln		
	125		130		135
Glu Tyr Met Phe	Asn Arg Pro Tyr Ser	Arg Lys Leu Glu Ala	Glu		
	140		145		150
Ala Asp Lys Ile	Gly Leu Leu Leu Ala	Ala Lys Ala Cys Ala	Asp		
	155		160		165
Ile Arg Ala Ser	Ser Val Phe Trp Gln	Gln Met Glu Phe Val	Asp		
	170		175		180
Ser Leu His Gly	Gln Pro Lys Met Pro	Glu Trp Leu Ser Thr	His		
	185		190		195
Pro Ser His Gly	Asn Arg Val Glu Tyr	Leu Asp Arg Leu Ile	Pro		
	200		205		210
Gln Ala Leu Lys	Ile Arg Glu Met Cys	Asn Cys Pro Pro Leu	Ser		
	215		220		225
Asn Pro Asp Pro	Arg Leu Leu Phe Lys	Leu Ser Thr Lys His	Phe		
	230		235		240
Leu Glu Glu Ser	Glu Lys Glu Asp Leu	Asn Ile Thr Lys Lys	Gln		
	245		250		255
Lys Met Asp Thr	Leu Pro Ile Gln Lys	Gln Glu Gln Ile Pro	Leu		
	260		265		270
Thr Tyr Ile Val	Glu Lys Arg Thr Gly	Ser			
	275		280		

<210> 8  
 <211> 914  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1737775

<400> 8	
Met Gly Pro Phe Lys	Ser Ser Val Phe Ile Leu Ile Leu His Leu
1	5
Leu Glu Gly Ala Leu	Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn
	20
Gly Tyr Glu Gly Ile	Val Val Ala Ile Asp Pro Asn Val Pro Glu
	35
Asp Glu Thr Leu Ile	Gln Gln Ile Lys Asp Met Val Thr Gln Ala
	50
Ser Leu Tyr Leu Phe	Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys
	65
Asn Val Ala Ile Leu	Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp
	80
Tyr Val Arg Pro Lys	Leu Glu Thr Tyr Lys Asn Ala Asp Val Leu
	95
Val Ala Glu Ser Thr	Pro Pro Gly Asn Asp Glu Pro Tyr Thr Glu
	110
Gln Met Gly Asn Cys	Gly Glu Lys Gly Glu Arg Ile His Leu Thr
	125
Pro Asp Phe Ile Ala	Gly Lys Lys Leu Ala Glu Tyr Gly Pro Gln
	140
Gly Arg Ala Phe Val	His Glu Trp Ala His Leu Arg Trp Gly Val
	155
Phe Asp Glu Tyr Asn	Asn Asp Glu Lys Phe Tyr Leu Ser Asn Gly
	170
Arg Ile Gln Ala Val	Arg Cys Ser Ala Gly Ile Thr Gly Thr Asn
	185
Val Val Lys Lys Cys	Gln Gly Gly Ser Cys Tyr Thr Lys Arg Cys

09883355 032001





PF-0489-1 CON

Tyr	Phe	Thr	Thr	Tyr	Asp	Thr	Asn	Gly	Arg	Tyr	Ser	Val	Lys	Val
				665					670					675
Arg	Ala	Leu	Gly	Gly	Val	Asn	Ala	Ala	Arg	Arg	Arg	Val	Ile	Pro
				680					685					690
Gln	Gln	Ser	Gly	Ala	Leu	Tyr	Ile	Pro	Gly	Trp	Ile	Glu	Asn	Asp
				695					700					705
Glu	Ile	Gln	Trp	Asn	Pro	Pro	Arg	Pro	Glu	Ile	Asn	Lys	Asp	Asp
				710					715					720
Val	Gln	His	Lys	Gln	Val	Cys	Phe	Ser	Arg	Thr	Ser	Ser	Gly	Gly
				725					730					735
Ser	Phe	Val	Ala	Ser	Asp	Val	Pro	Asn	Ala	Pro	Ile	Pro	Asp	Leu
				740					745					750
Phe	Pro	Pro	Gly	Gln	Ile	Thr	Asp	Leu	Lys	Ala	Glu	Ile	His	Gly
				755					760					765
Gly	Ser	Leu	Ile	Asn	Leu	Thr	Trp	Thr	Ala	Pro	Gly	Asp	Asp	Tyr
				770					775					780
Asp	His	Gly	Thr	Ala	His	Lys	Tyr	Ile	Ile	Arg	Ile	Ser	Thr	Ser
				785					790					795
Ile	Leu	Asp	Leu	Arg	Asp	Lys	Phe	Asn	Glu	Ser	Leu	Gln	Val	Asn
				800					805					810
Thr	Thr	Ala	Leu	Ile	Pro	Lys	Glu	Ala	Asn	Ser	Glu	Glu	Val	Phe
				815					820					825
Leu	Phe	Lys	Pro	Glu	Asn	Ile	Thr	Phe	Glu	Asn	Gly	Thr	Asp	Leu
				830					835					840
Phe	Ile	Ala	Ile	Gln	Ala	Val	Asp	Lys	Val	Asp	Leu	Lys	Ser	Glu
				845					850					855
Ile	Ser	Asn	Ile	Ala	Arg	Val	Ser	Leu	Phe	Ile	Pro	Pro	Gln	Thr
				860					865					870
Pro	Pro	Glu	Thr	Pro	Ser	Pro	Asp	Glu	Thr	Ser	Ala	Pro	Cys	Pro
				875					880					885
Asn	Ile	His	Ile	Asn	Ser	Thr	Ile	Pro	Gly	Ile	His	Ile	Leu	Lys
				890					895					900
Ile	Met	Trp	Lys	Trp	Ile	Gly	Glu	Leu	Gln	Leu	Ser	Ile	Ala	
				905					910					

<210> 9  
 <211> 950  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1794154

<400>	9													
Met	Thr	Trp	Arg	Met	Gly	Pro	Arg	Phe	Thr	Met	Leu	Leu	Ala	Met
1				5					10					15
Trp	Leu	Val	Cys	Gly	Ser	Glu	Pro	His	Pro	His	Ala	Thr	Ile	Arg
				20					25					30
Gly	Ser	His	Gly	Gly	Arg	Lys	Val	Pro	Leu	Val	Ser	Pro	Asp	Ser
				35					40					45
Ser	Arg	Pro	Ala	Arg	Phe	Leu	Arg	His	Thr	Gly	Arg	Ser	Arg	Gly
				50					55					60
Ile	Glu	Arg	Ser	Thr	Leu	Glu	Glu	Pro	Asn	Leu	Gln	Pro	Leu	Gln
				65					70					75
Arg	Arg	Arg	Ser	Val	Pro	Val	Leu	Arg	Leu	Ala	Arg	Pro	Thr	Glu
				80					85					90
Pro	Pro	Ala	Arg	Ser	Asp	Ile	Asn	Gly	Ala	Ala	Val	Arg	Pro	Glu
				95					100					105
Gln	Arg	Pro	Ala	Ala	Arg	Gly	Ser	Pro	Arg	Glu	Met	Ile	Arg	Asp
				110					115					120

092356.03001



PF-0489-1 CON

Lys Lys Gly Gly	575	Lys Thr Glu Gln Asp	580	Gly Tyr Gln Lys Pro	585
Asn Lys His Phe	590	Thr Gln Ser Pro Lys	595	Lys Ser Val Ala Asp	600
Leu Gly Ser Phe	605	Glu Gly Lys Arg Arg	610	Leu Leu Leu Ile Thr	615
Pro Lys Ala Glu	620	Asn Asn Met Tyr Val	625	Gln Gln Arg Asp Glu	630
Leu Glu Ser Phe	635	Cys Lys Met Ala Thr	640	Arg Lys Ile Ser Val	645
Thr Ile Phe Gly	650	Pro Val Asn Asn Ser	655	Thr Met Lys Ile Asp	660
Phe Gln Leu Asp	665	Asn Glu Lys Pro Met	670	Arg Val Val Asp Asp	675
Asp Leu Val Asp	680	Gln Arg Leu Ile Ser	685	Glu Leu Arg Lys Glu	690
Gly Met Thr Tyr	695	Asn Asp Phe Phe Met	700	Val Leu Thr Asp Val	705
Leu Arg Val Lys	710	Gln Tyr Tyr Glu Val	715	Pro Ile Thr Met Lys	720
Val Phe Asp Leu	725	Ile Asp Thr Phe Gln	730	Ser Arg Ile Lys Asp	735
Glu Lys Gln Lys	740	Lys Glu Gly Ile Val	745	Met Cys Lys Glu Asp	750
Gln Ser Leu Glu	755	Asn Phe Leu Ser Arg	760	Lys Cys Lys Glu Asp	765
Leu Leu Val Ile	770	Ser Ala Pro Asn Asp	775	Phe Arg Trp Arg Arg	780
Gln Gln Leu Ser	785	Ala Leu Ser Gly Gln	790	Ala Cys Asn Phe Gly	795
Arg His Ile Thr	800	Ile Leu Lys Leu Leu	805	Gly Val Gly Glu Glu	810
Gly Gly Val Leu	815	Glu Leu Phe Pro Ile	820	Asn Gly Ser Ser Val	825
Glu Arg Glu Asp	830	Val Pro Ala His Leu	835	Val Lys Asp Ile Arg	840
Tyr Phe Gln Val	845	Ser Pro Glu Tyr Phe	850	Val Lys Asp Ile Arg	855
Lys Asp Gly Asn	860	Val Lys Ser Trp Tyr	865	Ser Met Leu Leu Val	870
Met Val Ile Val	875	Tyr Asp Leu Ile Asp	880	Pro Ser Pro Met Trp	885
Gln Glu Met Ala	890	Ile Gln Gln Ser Leu	895	Ser Met Gln Leu Arg	900
Asp Glu Tyr Ala	905	Gly Tyr Gly Tyr His	910	Gly Met Arg Cys Pro	915
Gln Asp Gly Tyr	920	Gln Asp Asp Tyr Arg	925	Ser Tyr His Gln Gly	930
His Gly Tyr Pro	935	Tyr	940	His His Glu Ser Tyr	945
	950				

<210> 10

<211> 578

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2027624

Table 1. Demographic characteristics of the study population	
Characteristic	Frequency (%)
Age (years)	
< 18	10 (10.0)
18-24	25 (25.0)
25-34	30 (30.0)
35-44	20 (20.0)
45-54	15 (15.0)
55-64	10 (10.0)
65-74	5 (5.0)
≥ 75	5 (5.0)
Gender	
Male	45 (45.0)
Female	55 (55.0)
Ethnicity	
White	30 (30.0)
Black	20 (20.0)
Hispanic	15 (15.0)
Asian	10 (10.0)
Other	5 (5.0)
Marital status	
Married	35 (35.0)
Single	20 (20.0)
Divorced	15 (15.0)
Widowed	10 (10.0)
Never married	5 (5.0)
Education level	
High school or less	20 (20.0)
Some college	15 (15.0)
Bachelor's degree	10 (10.0)
Master's degree	5 (5.0)
PhD	5 (5.0)
Other	5 (5.0)
Annual income	
< \$10,000	10 (10.0)
\$10,000-\$19,999	15 (15.0)
\$20,000-\$29,999	10 (10.0)
\$30,000-\$39,999	10 (10.0)
\$40,000-\$49,999	10 (10.0)
\$50,000-\$59,999	10 (10.0)
\$60,000-\$69,999	10 (10.0)
\$70,000-\$79,999	10 (10.0)
\$80,000-\$89,999	10 (10.0)
\$90,000-\$99,999	10 (10.0)
≥ \$100,000	10 (10.0)

Met	Ala	Ala	Ala	Met	Pro	Leu	Ala	Leu	Leu	Val	Leu	Leu	Leu	Leu
1				5					10					15
Gly	Pro	Gly	Gly	Trp	Cys	Leu	Ala	Glu	Pro	Pro	Arg	Asp	Ser	Leu
				20					25					30
Arg	Glu	Glu	Leu	Val	Ile	Thr	Pro	Leu	Pro	Ser	Gly	Asp	Val	Ala
				35					40					45
Ala	Thr	Phe	Gln	Phe	Arg	Thr	Arg	Trp	Asp	Ser	Glu	Leu	Gln	Arg
				50					55					60
Glu	Gly	Val	Ser	His	Tyr	Arg	Leu	Phe	Pro	Lys	Ala	Leu	Gly	Gln
				65					70					75
Leu	Ile	Ser	Lys	Tyr	Ser	Leu	Arg	Glu	Leu	His	Leu	Ser	Phe	Thr
				80					85					90
Gln	Gly	Phe	Trp	Arg	Thr	Arg	Tyr	Trp	Gly	Pro	Pro	Phe	Leu	Gln
				95					100					105
Ala	Pro	Ser	Gly	Ala	Glu	Leu	Trp	Val	Trp	Phe	Gln	Asp	Thr	Val
				110					115					120
Thr	Asp	Val	Asp	Lys	Ser	Trp	Lys	Glu	Leu	Ser	Asn	Val	Leu	Ser
				125					130					135
Gly	Ile	Phe	Cys	Ala	Ser	Leu	Asn	Phe	Ile	Asp	Ser	Thr	Asn	Thr
				140					145					150
Val	Thr	Pro	Thr	Ala	Ser	Phe	Lys	Pro	Leu	Gly	Leu	Ala	Asn	Asp
				155					160					165
Thr	Asp	His	Tyr	Phe	Leu	Arg	Tyr	Ala	Val	Leu	Pro	Arg	Glu	Val
				170					175					180
Val	Cys	Thr	Glu	Asn	Leu	Thr	Pro	Trp	Lys	Lys	Leu	Leu	Pro	Cys
				185					190					195
Ser	Ser	Lys	Ala	Gly	Leu	Ser	Val	Leu	Leu	Lys	Ala	Asp	Arg	Leu
				200					205					210
Phe	His	Thr	Ser	Tyr	His	Ser	Gln	Ala	Val	His	Ile	Arg	Pro	Val
				215					220					225
Cys	Arg	Asn	Ala	Arg	Cys	Thr	Ser	Ile	Ser	Trp	Glu	Leu	Arg	Gln
				230					235					240
Thr	Leu	Ser	Val	Val	Phe	Asp	Ala	Phe	Ile	Thr	Gly	Gln	Gly	Lys
				245					250					255
Lys	Asp	Trp	Ser	Leu	Phe	Arg	Met	Phe	Ser	Arg	Thr	Leu	Thr	Glu
				260					265					270
Pro	Cys	Pro	Leu	Ala	Ser	Glu	Ser	Arg	Val	Tyr	Val	Asp	Ile	Thr
				275					280					285
Thr	Tyr	Asn	Gln	Asp	Asn	Glu	Thr	Leu	Glu	Val	His	Pro	Pro	Pro
				290					295					300
Thr	Thr	Thr	Tyr	Gln	Asp	Val	Ile	Leu	Gly	Thr	Arg	Lys	Thr	Tyr
				305					310					315
Ala	Ile	Tyr	Asp	Leu	Leu	Asp	Thr	Ala	Met	Ile	Asn	Asn	Ser	Arg
				320					325					330
Asn	Leu	Asn	Ile	Gln	Leu	Lys	Trp	Lys	Arg	Pro	Pro	Glu	Asn	Glu
				335					340					345
Ala	Pro	Pro	Val	Pro	Phe	Leu	His	Ala	Gln	Arg	Tyr	Val	Ser	Gly





PF-0489-1 CON

	50		55		60
Ser Phe Ile Leu	Ala Gly Leu Ile Val	Gly Gly Ala Cys Ile Tyr			
	65	70			75
Lys Tyr Phe Met	Pro Lys Ser Thr Ile Tyr	Arg Gly Glu Met Cys			
	80	85			90
Phe Phe Asp Ser	Glu Asp Pro Ala Asn Ser	Leu Arg Gly Gly Glu			
	95	100			105
Pro Asn Phe Leu	Pro Val Thr Glu Glu Ala	Asp Ile Arg Glu Asp			
	110	115			120
Asp Asn Ile Ala	Ile Ile Asp Val Pro Val	Pro Ser Phe Ser Asp			
	125	130			135
Ser Asp Pro Ala	Ala Ile Ile His Asp Phe	Glu Lys Gly Met Thr			
	140	145			150
Ala Tyr Leu Asp	Leu Leu Leu Gly Asn Cys	Tyr Leu Met Pro Leu			
	155	160			165
Asn Thr Ser Ile	Val Met Pro Pro Lys Asn	Leu Val Glu Leu Phe			
	170	175			180
Gly Lys Leu Ala	Ser Gly Arg Tyr Leu Pro	Gln Thr Tyr Val Val			
	185	190			195
Arg Glu Asp Leu	Val Ala Val Glu Glu Ile	Arg Asp Val Ser Asn			
	200	205			210
Leu Gly Ile Phe	Ile Tyr Gln Leu Cys Asn	Asn Arg Lys Ser Phe			
	215	220			225
Arg Leu Arg Arg	Arg Asp Leu Leu Leu Gly	Phe Asn Lys Arg Ala			
	230	235			240
Ile Asp Lys Cys	Trp Lys Ile Arg His Phe	Pro Asn Glu Phe Ile			
	245	250			255
Val Glu Thr Lys	Ile Cys Gln Glu				
	260				

<210> 14  
 <211> 239  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2741580

<400> 14	
Met Ala Arg Gly Arg	Leu Cys Cys Leu Lys Tyr Met Met Phe Leu
1	5 10 15
Phe Asn Leu Ile Phe	Trp Leu Cys Gly Cys Gly Leu Leu Gly Val
	20 25 30
Gly Ile Trp Leu Ser	Val Ser Gln Gly Asn Phe Ala Thr Phe Ser
	35 40 45
Pro Ser Phe Pro Ser	Leu Phe Ala Ala Asn Leu Val Ile Ala Ile
	50 55 60
Gly Thr Ile Val Met	Val Thr Gly Phe Leu Gly Cys Leu Gly Ala
	65 70 75
Ile Lys Glu Asn Lys	Cys Leu Leu Leu Ser Phe Phe Ile Val Leu
	80 85 90
Leu Val Ile Leu Leu	Ala Glu Leu Ile Leu Leu Ile Leu Phe Phe
	95 100 105
Val Tyr Met Asp Lys	Val Asn Glu Asn Ala Lys Lys Asp Leu Lys
	110 115 120
Glu Gly Leu Leu Leu	Tyr His Thr Glu Asn Asn Val Gly Leu Lys
	125 130 135
Asn Ala Trp Asn Ile	Ile Gln Ala Glu Met Arg Cys Cys Gly Val
	140 145 150
Thr Asp Tyr Thr Asp	Trp Tyr Pro Val Leu Gly Glu Asn Thr Val

FOOEEQ"95EE960





PF-0489-1 CON

<220>

<221> misc\_feature

<223> Incyte ID No: 2879792

<400> 16

Met	Gly	Asn	Phe	Arg	Gly	His	Ala	Leu	Pro	Gly	Thr	Phe	Phe	Phe
1				5					10					15
Ile	Ile	Gly	Leu	Trp	Trp	Cys	Thr	Lys	Ser	Ile	Leu	Lys	Tyr	Ile
				20					25					30
Cys	Lys	Lys	Gln	Lys	Arg	Thr	Cys	Tyr	Leu	Gly	Ser	Lys	Thr	Leu
				35					40					45
Phe	Tyr	Arg	Leu	Glu	Ile	Leu	Glu	Gly	Ile	Thr	Ile	Val	Gly	Met
				50					55					60
Ala	Leu	Thr	Gly	Met	Ala	Gly	Glu	Gln	Phe	Ile	Pro	Gly	Gly	Pro
				65					70					75
His	Leu	Met	Leu	Tyr	Asp	Tyr	Lys	Gln	Gly	His	Trp	Asn	Gln	Leu
				80					85					90
Leu	Gly	Trp	His	His	Phe	Thr	Met	Tyr	Phe	Phe	Phe	Gly	Leu	Leu
				95					100					105
Gly	Val	Ala	Asp	Ile	Leu	Cys	Phe	Thr	Ile	Ser	Ser	Leu	Pro	Val
				110					115					120
Ser	Leu	Thr	Lys	Leu	Met	Leu	Ser	Asn	Ala	Leu	Phe	Val	Glu	Ala
				125					130					135
Phe	Ile	Phe	Tyr	Asn	His	Thr	His	Gly	Arg	Glu	Met	Leu	Asp	Ile
				140					145					150
Phe	Val	His	Gln	Leu	Leu	Val	Leu	Val	Val	Phe	Leu	Thr	Gly	Leu
				155					160					165
Val	Ala	Phe	Leu	Glu	Phe	Leu	Val	Arg	Asn	Asn	Val	Leu	Leu	Glu
				170					175					180
Leu	Leu	Arg	Ser	Ser	Leu	Ile	Leu	Leu	Gln	Gly	Ser	Trp	Phe	Phe
				185					190					195
Gln	Ile	Gly	Phe	Val	Leu	Tyr	Pro	Pro	Ser	Gly	Gly	Pro	Ala	Trp
				200					205					210
Asp	Leu	Met	Asp	His	Glu	Asn	Ile	Leu	Phe	Leu	Thr	Ile	Cys	Phe
				215					220					225
Cys	Trp	His	Tyr	Ala	Val	Thr	Ile	Val	Ile	Val	Gly	Met	Asn	Tyr
				230					235					240
Ala	Phe	Ile	Thr	Trp	Leu	Val	Lys	Ser	Arg	Leu	Lys	Arg	Leu	Cys
				245					250					255
Ser	Ser	Glu	Val	Gly	Leu	Leu	Lys	Asn	Ala	Glu	Arg	Glu	Gln	Glu
				260					265					270
Ser	Glu	Glu	Glu	Met										
				275										

<210> 17

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3231062

<400> 17

Met	Gly	Arg	Phe	Arg	Gly	Gly	Leu	Arg	Cys	Ile	Lys	Tyr	Leu	Leu
1				5					10					15
Leu	Gly	Phe	Asn	Leu	Leu	Phe	Trp	Leu	Ala	Gly	Ser	Ala	Val	Ile
				20					25					30
Ala	Phe	Gly	Leu	Trp	Phe	Arg	Phe	Gly	Gly	Ala	Ile	Lys	Glu	Leu
				35					40					45
Ser	Ser	Glu	Asp	Lys	Ser	Pro	Glu	Tyr	Phe	Tyr	Val	Gly	Leu	Tyr

<400>	18						
ctagcgcgcc	cggacggaga	ccaccttgcg	gccgaccccg	ctcccccgcc	tctctcgggag	60	
agataaatgc	tgactccgct	cggaaagttc	tcaactgcaa	agtttgctgt	ccggctgcct	120	
agggctctggg	aagctcgggc	accctccctc	tccgggggctc	ctgctcccac	ccctccggcc	180	
cccccaccg	cgcgctcctc	caggctgggc	ctgtggccgc	gggtcttttt	aattttcccc	240	
cagctcagaa	tcttgctgct	cggccccag	cagagcaaca	actcaacggg	aacgatgtgg	300	
aagggtctcag	ctctgctctt	cgttttgga	agcgcgtcg	tctgggtcct	ggcagaagga	360	
gccagcacag	gccagccaga	agatgacact	gagactacag	gtttggaagg	cggcgttgcc	420	
atgccagggtg	ccgaagatga	tgtggtgact	ccaggaacca	gcgaagaccg	ctataagtct	480	
ggcttgacaa	ctctgggtggc	aacaagtgtc	aacagtgtaa	caggcattcg	catcgaggat	540	
ctgccaaactt	cagaaagcac	agtccacgcg	caagaacaaa	gtccaagcgc	cacagcctca	600	
aacgtggcca	ccagtcactc	cacggagaaa	gtggatggag	acacacagac	aacagcttag	660	
aaagatgggt	tgtcaacagt	gaccttggtt	ggaatcatag	ttggggtcct	actagccatc	720	
ggcttcattg	gtggaatcat	cgttggtggt	atgcgaaaaa	tgtcgggaag	gtactcgccc	780	
taaagagctg	aagggttacg	ccctgctgcc	aacgtgctta	aaaaaagacc	gtttctgact	840	
ctgtgccctg	tccctgagct	cgtgggagaa	gatgaccctg	ggaacacttg	cctggcccac	900	
tcagaatcca	cggtgacctc	tccgcttgcc	aaaataaccg	aaggaaaagac	cgttcaccag	960	
acttggtctc	tctaaacatt	tgtgtttcaa	acatgttttt	gaatatacat	tctataaaaag	1020	
attatttgaa	agacaaaatt	catagaaaaa	ggagcaaaaac	tgtataaaat	gatttghtaac	1080	
taacattgga	ccatttgatc	gatattatat	gctgtaacca	tgtgtctccg	tctgaccatt	1140	
ttctgtattg	ttaaattgca	gaggaatatcg	gaaatatatta	tatccacgga	gtccttggtat	1200	
ccagtgtctac	gtcagtaaat	agcaccagca	ttttgcaatt	gctgatctgc	tgaaatgtac	1260	
acattctgggt	ctagtttggt	ctatcttttta	aagcctgac	tgggtgtgaat	aatcaactag	1320	
gaaatctaaa	cttgataaac	acgtggtgaa	caactgcctt	tagctgggtcc	agattaatatca	1380	
tttcaaagac	atccattttta	gatcacaagc	aggaagtctga	tagtctcaaa	ggcacttttgt	1440	
ttctcccaag	taggcaccaca	ggcagcctct	agagttgctt	tacccaaatc	cttctccagc	1500	
catgacttgg	tgaacttaag	cttgctccca	cctgccccct	ccacttccct	cagatgatga	1560	
ggagccaggg	ctaaaggggc	aaccttctct	cttcccactg	atgcacatcc	ttcacattgg	1620	

PF-0489-1 CON

ctgcttttgtt	ctggaatatg	gatatctcag	cctggatgcc	gaggaagctg	ctggatgctt	1680
aatgggtgcta	gaggctcaag	tgtgttttgaa	accaagagcc	agttgtcccc	catgcagaaa	1740
gaaatcctgt	gtgagcctct	ggtatgagac	ataaaatctg	ccagttttat	aacactcaaa	1800
aaaaaaaaac	acacaaaaaa	aaa				1823

<210> 19  
<211> 1416  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1381884

<400> 19

attgtgtttt	ccacagaaga	gaaagtacac	tggactttct	gtgcaacctg	ttactacatt	60
ttcacagaga	ctcatatttg	tgcagtgtaa	ctcagttgaa	acccagcaaa	attaggctcc	120
cgtgtctcca	taaaggccac	catgatggta	acggttgtag	ttcaccttgc	gtttggacag	180
aggctgattg	attttagcca	tcatacacacc	gtgtctaaca	ttctctttca	ctgtgctttg	240
atcctctgta	agaaagaacc	tggagcaaaag	attagcagag	gtgctaaagg	gaagaaggag	300
gaaaagcagg	aagctggaaa	ggaagggtact	gcaccatctg	aaaatggtga	aactaaagct	360
gaagaggtac	tttccataaa	tacctccac	tgattgaatc	agtgtcttta	aagaaatttc	420
tcaatccttc	agccggtgat	agcacgttct	taatgtctct	ttttattgcc	tgtaatgtta	480
ttgcagatcc	acatctctcg	ctcaactgtt	aatgtctcaa	cctccagagg	cacccacacc	540
agcacactgt	cagtaaaggg	gcagattgaa	acagtgtgag	ttaagggtac	agtagaaaat	600
tctgcatgtt	tgcagtgtg	agaatcagat	agtagtgtgg	tggttttttt	tttaatcatt	660
atgaagagt	ggagcttgca	ggtaaggctt	ctgtggtggt	ttgaaaagca	gaaagcaata	720
aatgaaacaa	agtgtttgtg	taatatattc	ctgccttgtc	ttcttcactc	agagttgaaa	780
taggtttttg	agtaaagctg	gaaaaaaaaa	agaaaacaaa	tgttcaaaac	tgtgtgtgtt	840
ggtgggtgga	atttcctttg	cttatagtag	tttcagtagt	aactatatgt	ttttttttcc	900
tttctttttc	acaggcacag	aaaactgaat	ctgtagataa	cgaggagaaa	tgaattgtca	960
tgaaaaattg	gggttgattt	tatgtatctc	ttgggacaac	ttttaaaagc	tattttttacc	1020
aagtattttg	taaatgtctaa	tttttttagga	ctctactagt	tggcatacga	aaatatataa	1080
ggatggacat	tttatcgtct	catagtcagt	cttttttgaa	atttacatca	tcctcaagta	1140
aaataaatat	cagttaaata	ttggaagctg	tgtgttaagt	tgattcagca	ttccatgcac	1200
ttgctttaaa	atttagtcct	gtgcatactg	tgggtgtttt	actgtgcata	tttgaatttt	1260
tcatgcagtt	tttctagagc	aataatcagt	ggtgcttttg	tacctagggt	ttatgtgatt	1320
ttaatgaaac	atggatagtt	gtggccacct	gctgactatt	tgtggtttta	aataaaagg	1380
ttacttgtct	gcagaaaaaa	aaaaaaaaaa	ggctgt			1416

<210> 20  
<211> 2487  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1427590

<400> 20

ggacccggag	cggaagatg	gcggcgggcg	aggaggcgga	cggggcccgc	agcgccgtgg	60
tggcgggcgg	gggaggcagc	tccggtcagg	tgaccagcaa	tggcagcatc	gggagggacc	120
cgccagcgga	gaccagcct	cagaacccac	cggcccagcc	ggcacccaat	gacctggcag	180
tcatacaagg	tgtgtgttt	aggatcttca	tcacttgggc	catcagcagt	tggttccgcc	240
gaggggccgg	ccctcaggac	caggcggggc	ccggaggagc	cccacgcgtc	gccagccgca	300
acctgttccc	caaagacact	ttaatgaacc	tgcagtgtga	catctcagag	cacgagcact	360
ttacagactt	caacgccacg	tccgactctt	tctgggaaca	gcacgatctt	gtgtatggcg	420
actggactag	cggcgagaac	tcagacggct	gctacgagca	ctttgctgag	ctcgatatcc	480
cacagagcgt	ccagcagaac	ggctccatct	acatccacgt	ttacttcacc	aagatgggt	540
tccacccaga	cccccgag	aaggccctgt	accgcccgt	tgccacagtc	cacatgtccc	600
ggatgatcaa	caaatacaag	cgcagacgat	ttcagaaaac	caagaacctg	ctgacaggag	660

agacagaagc	ggacccagaa	atgatcaaga	gggctgagga	ctatgggcct	gtggaggtga	720
tctcccattg	gcaccccaac	atcaccatca	acatcgtgga	cgaccacacg	ccgtgggtga	780
agggcagtg	gccccctccc	ctggatcaat	atgtgaagtt	cgacgccgtg	agcggtgact	840
actatcccat	catctacttc	aatgactact	ggaacctgca	gaaggactac	taccccatca	900
acgagagcct	ggccagcctg	ccgctccgcg	tctccttctg	cccgtctctg	ctttggcgct	960
ggcagctcta	tgctgcccag	agcaccaagt	cgccctggaa	cttctctgggt	gatgagttgt	1020
acgagcagtc	agatgaggag	caggactcgg	tgaagggtgg	cctgctggag	accaaccctt	1080
acctgctggc	gctcaccatc	atcgtgtcta	tcgttcacag	tgtcttcgag	ttcctggcct	1140
tcaagaatga	tatccagttc	tggaacagcc	ggcagtcctt	ggaggggcctg	tccgtgcgct	1200
ccgtcttctt	cggcgttttc	cagtcattcg	tggtcctcct	ctacatcctg	gacaacgaga	1260
ccaacttcgt	ggtccaggtc	agcgtcttca	ttggggctcct	catcgacctc	tggaaagatca	1320
ccaaggtcat	ggacgtccgg	ctggaccgag	agcacagggt	ggcaggaatc	ttcccccgcc	1380
tatccttcaa	ggacaagtcc	acgtatatcg	agtcctcgac	caaagtgtat	gatgatattg	1440
cattccggta	cctgtcctgg	atcctcttcc	cgctcctggc	tgctatgccg	tctacagtct	1500
tctgtacctg	gagcacaagg	gctgggtactc	ctgggtgctc	agcatgctct	acggcttctt	1560
gctgaccttc	ggcttcatca	ccatgacgcc	ccagctcttc	atcaactaca	agctcaagtc	1620
tggtgcccac	cttccctggc	gcattgctcac	ctacaaggcc	ctcaacacat	tcatcgacga	1680
cctgttcgcc	tttgtcatca	agatgcccg	tatgtaccgg	atcggctgcc	tgcgggacga	1740
tggtggtttt	ttcatctacc	tctaccaacg	gtggatctac	cgctcgcacc	ccacccgagt	1800
caacgagttt	ggcatgagtg	gagaagaccc	cacagctgcc	gcccccggtg	ccgaggttcc	1860
cacagcagca	ggggccctca	cgccccacac	tgcacccacc	acgaccaccg	ccaccaggga	1920
ggaggcctcc	acgtccctgc	ccaccaagcc	caaccagggg	gccagctctg	ccagcgagcc	1980
ccaggaagcc	cctccaaagc	cagcagagga	caagaaaaag	gattagtcca	gactggctct	2040
cacctgctcc	ggctcctggc	gaccactacc	cctgcgtccc	ggccccctcg	cctccccctc	2100
ctgtcgccct	ttccctggac	agatcaggcc	ggggcggtgg	gaggcccgcc	tcaggtcagg	2160
gcccagcgtg	tgacgtaggg	gccggggcag	gccagggttt	gtttgtggag	gcgctgtctg	2220
tcctctgtgc	cctctgtgtt	tccagccatc	tgcacctgcc	agcccagcac	cactgggaat	2280
catggtgaag	ctgatgcagc	gttgccgagg	gggtgggttg	ggcgggggtg	gggcggggcc	2340
ccctacggg	atgcccacgg	ccgttcatca	tcttgtccct	cgcccccta	ccacactccc	2400
cctcctagac	cgccgcctt	taacacagtc	tggatttaat	aaattcata	gggtgtttaa	2460
cttaaactca	aaaaaaaaa	aaaaaaa				2487

<210> 21  
 <211> 2261  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1457779

<400> 21						
cctggagcca	ggtgcacagc	gcategcccc	aggctgtcac	cgccctgccc	cgcccccccc	60
agctgtcctg	gacccagggg	cagggagagg	ctggacgcca	ggtgcgcgga	cacagaagcg	120
tctaagcaca	gcttctctct	tgcgcgtccg	ggaagtgggc	agccagccca	ggagccagta	180
ccacctgcac	catggggctg	tcccggaaag	agcaggtctt	cttggccctg	ctgggggccc	240
cgggggtctc	aggcctcacg	gcactcattc	tctctctggt	ggaggccacc	agcgtgctcc	300
tgccacagca	catcaagttt	gggatcgtgt	ttgatgcggg	ctcctcccac	acgtccctct	360
tcctgtatca	gtggccggcg	aacaaggaga	atggcacggg	tgtggtcagc	caggccctgg	420
cctgccaggt	ggaagggcct	ggaatctcct	cctacacttc	taatgctgca	caggctgggtg	480
agagcctgca	gggctgcttg	gaggaggcgc	tggtgctgat	cccagaggcc	cagcatcgga	540
aaacacccac	gttctctggg	gccacggctg	gcatgaggtt	gctcagccgg	aagaacagct	600
ctcaggccag	ggacatcttt	gcagcagtc	cccaggtcct	gggcccgtct	cccgtggact	660
tttggggtgc	cgagctcctg	gccgggcagg	ccgaagggtc	ctttggttgg	atcactgtca	720
actacggctt	ggggacgctg	gtcaagtact	ccttctactg	agaatggatc	cagcctccgg	780
aggagatgct	ggtgggtgcc	ctggacatgg	gaggggcctc	caccagatc	acgttcgtgc	840
ctggggggcc	catcttggac	aagagcacc	aggccgattt	tgcctctac	ggctccgact	900
acagcgtcta	cactcacagc	tacctgtgct	ttggacggga	ccagatgctg	agcaggctcc	960
tcgtggggct	ggtgcagagc	cgcccggctg	cctgtctccg	tcaccctgct	tacctcagcg	1020
gctaccagac	cacactggcc	ctggggccgc	tgtagtagtc	accctgtgtc	cacgccacgc	1080
ccccgctgag	cctccccacg	aacctcacag	ttgaaggggc	aggcaaccct	ggagcctgcg	1140

```

tctcagccat cccgggaactt ttcaacttct ccagctgcc a gggccaggag gactgcgcct 1200
ttgacggggt ctaccagccc ccgctgcggg gccagttcta tgccttctcc aacttctact 1260
acaccttcca cttcctgaac ctcacctcca ggcagcccct gagcacggtc aacgccacca 1320
tctgggagtt ttgccagagg ccttggaac tgggtggaggc cagctaccct gggcaggacc 1380
gctggctgcg ggactactgt gcctcaggcc tgtacatcct caccctcctg caccagggct 1440
acgggttcag cgaggagacc tggcccagcc tcgagttccg aaagcaggcg ggcggtgtgg 1500
acattggctg gacactgggc tacatgctga acctgaccgg gatgatcccg gccgatgcgc 1560
cggtcagtg gcgggcagag agctacggcg tctgggtggc caaagtgggtg ttcattggtgc 1620
tggccctggt ggcggtggtg ggggctgcct tgggtccagct cttctggttg caggactagt 1680
gggaaggcgg aggtgggccc ccacagagcc cacaggcagc tgcgtcccgg atgctggagg 1740
cttcctgagc cctgagcgcc gtggggcctt gctctgtggg tctgcccacg gtcagggtgac 1800
agccacctcc agggcacctg cagggtggtg ctggccacag aggctgcag acctcccctc 1860
ccggcgctcc tcccccaacc tcttccgca actgggcttc cagggccgta ggtgcctttc 1920
tgcacacagg ccgccaggac tcgtggtgtc tccaggctgt gtgactgcag ggccacatgc 1980
tgcttcaaaa cagggcaaga ccacggaggc acaggggtcc tgctcctgat ggggcctcag 2040
gagggggcga gaggggtgga agggaggagg ctgccccacc tggacccccg ctctcccctgc 2100
tgttgtctga gcagatggat ggagtccagg cctgggggct tctgctgggc cagcccggcc 2160
tcccacaccc acttgagggg tgagactgca gtgggggttg tttttattaa aagcatcatg 2220
gacacagcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 2261

```

```

<210> 22
<211> 1034
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1481261

```

```

<400> 22
aaggggaggg attagagcct ccttctcttc tgcacctccc catgggtctc tagggggctg 60
gtgcaggcag cagcagaggc actctgggca gctgggtgag ggcccatctg ggcaaggccc 120
ccagcgccctg ccttctcttc cggggccctg tgggcaagcc tcttgcttca ctttcagggt 180
tctcgaagtg ccttcttctg cctgtctggt tccccatcct gccagatttc tgtttctctt 240
gctgggcttt tggcagtagg gggctgtggt ggtgggccc acgaagatgc tcagtgtctg 300
agatcgccgg gaccggcacc ctgaggaggg ggtagtgtga gagctccagg gcttcggggt 360
ggacaaggcc ttcctcacct cccacaaggg catcctgctg gaaaccgagc tggccctgac 420
cctcatcatc ttcattctgt tcacggcctc catctctgcc tacatggccg cggcgctact 480
ggagttcttc atcacacttg ccttctctct cctctatgcc acccagtact accagcgctt 540
cgaccgaatt aactggccct gtctggacct cctgcgctgt gtcagtgcc tcatcatctt 600
cctgggtggt tcctttgcag ctgtgacctc ccgggacgga gctgccattg ctgcttttgt 660
ttttggcatc atcctggttt ccatcttttc ctatgatgcc ttcaagatct accggactga 720
gatggcacc cggggccagcc agggggacca gcagtgactc tggggctacc tggctcctag 780
gccagccag ccagagagga cagtggagcc cagacacgtc tccttgggat tccactagcc 840
ccagcccgg aaacgccacc ccagccctac acagcagctt ggccctgagac gtcactgggg 900
acttatctgt ggagcctggt gctccaggat gtggcttctc atgaagctct ggccagagga 960
ggggaactta ttgggggagg gggggtggag ggggggaatc tggacctcta agtcattccc 1020
ataattaaaa tatc 1034

```

```

<210> 23
<211> 2411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1487802

```

```

<400> 23
ggcggggatt ggtctgtgct cctctctcgg ctctctcgg ctcgcgggcg ccgaagggtc 60
ctgggacacc tgcttgcttg gcccgctccg cggctcaggg cttctctgct gcgctcccgg 120

```

ttcgctggac ggaagaagg gctgggcccgt cccgtcccgt ccccatcgga accccaagtc 180  
 gcgcccgtga cccgtcgcag ggcgagatga gcgcgggacgc agcgggccggg gcgcccctgc 240  
 cccggctctg ctgcctggag aagggtccga acgggtacgg cttccacctg cacggggaga 300  
 agggcaagt gggccagtt atccggctgg tggagcccgg ctcgccggcc gagaaggcgg 360  
 ggctgctggc gggggaccgg ctggtggagg tgaacggcga aaacgtggag aaggagacc 420  
 accagcaggt ggtgagccgc atccgcgccg cactcaacgc cgtgcgcctg ctggtggtcg 480  
 accccgagac ggacgagcag ctgcagaagc tcggcgcca ggtccgagag gagctgctgc 540  
 gcgcccagga agcgccgggg caggccgagc cgccggccgc cgccgaggtg cagggggctg 600  
 gcaacgaaaa tgagcctcgc gaggccgaca agagccaccc ggagcagcgc gagcttcggc 660  
 ctgggctctg taccatgaag aagggccca gtggctatgg cttcaacctg cacagcgaca 720  
 agtccaagcc aggcagttc atccggctcag tgaacccaga ctcccggct gaggttcag 780  
 ggctccgggc ccaggatcgc attgtggagg tgaacggggg ctgcatggag gggaagcagc 840  
 atggggacgt ggtgtccgcc atcagggtcg gcggggacga gaccaagctg ctggtggtgg 900  
 acagggaac tgacgagttc ttcaagaaat gcagagtgat cccatctcag gagcacctga 960  
 atggtccctt gcctgtgccc ttcaccaatg gggagatata gaaggagaac agtcgtgaag 1020  
 cctggcaga ggcagcctt gagagcccca ggccagccct ggtgagatgc gcctccagtc 1080  
 acaccagcga ggagctgaat tcccaagaca gcccccaaa acaggactcc cacagcgaca 1140  
 cgtctacctc ctccctcgac cccatcctag acttcaacat ctccctggcc atggccaaag 1200  
 agagggccca ccagaaacgc agcagcaaac gggccccgca gatggactgg agcaagaaaa 1260  
 acgaactctt cagcaacctc tgagcgccct gctgccaccc agtgactggc agggccgagc 1320  
 cagcattcca ccccaccttt ttccctctcc ccaattactc ccctgaatca atgtacaaat 1380  
 cagcaccac atcccctttc ttgacaaatg atttttctag agaactatgt tcttccctga 1440  
 ctttagggaa ggtgaatgtg ttcccgctc cccgcagtca gaaaggagac tctgcctccc 1500  
 tctctctcac tgagtgcctc atcctaccgg gtgtcccttt gccaccctgc ctgggacatc 1560  
 gctggaacct gcaccatgcc aggatcatgg gaccaggcga gagggcacc tcccttctc 1620  
 ccccatgtga taaatgggtc cagggtgat caaagaactc tgactgcaga actgccgctc 1680  
 tcagtggaca gggcatctgt taccctgaga cctgtggcag acacgtcttg ttttcatttg 1740  
 atttttgtta agagtgcagt attgcagagt ctagaggaat ttttgtttcc ttgattaaca 1800  
 tgattttcct gtttgttaca tccagggcat ggcagtggcc tcagccttaa acttttgttc 1860  
 ctactccac cctcagcga ctgggcagca cggggagggt ttggctaccc ctgcccattc 1920  
 ctgagccagg taccaccatt gtaaggaaac actttcagaa attcagctgg ttctccaaa 1980  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacaccct gggggggggc gccgaaaacc 2040  
 caatttcgcc caaaagggga gtcgaaataa aatttcgggg ggcggtcgtt ttaacaaccg 2100  
 tcgtgacctg ggaaaaaccc ttgggtgtat acccaaagct ttaatccggc ttggaaggga 2160  
 aaatccccc cttttgggcc agatttgggg tataaatagg cgcgagaggg gccccggaac 2220  
 ccgcatatgc ggcctttgccc aagaagattg tttcgcgagc agctcaattg gcgagagcgc 2280  
 aagtaacggc ggaatattgc gagagggggg tataaaaatt ctttggaag gaaaatattg 2340  
 cggcgagtaa aaattttttg cgggatagaa actccaggct tcaatttttt tttgagagcg 2400  
 aggggggggg g 2411

&lt;210&gt; 24

&lt;211&gt; 1846

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1718830

&lt;400&gt; 24

gttttttttt tgtttcaggt aatcaagtga aaaaatgagc ttcattctgtg gattgcagtc 60  
 tgctgctaga aaccatgttt tcttccgatt taattcactg tctaactgga gaaaatgtaa 120  
 cacattagca tccacctcac ggggctgtca tcaagtacaa gttaaccata tagtaataa 180  
 gtatcaggga ctgggagtaa atcagtgtga cagggtggagt tttctgcctg gaaactttca 240  
 tttttatagt acttttaaca acaaaagaac aggaggcctc tcaagtacca aaagtaaggga 300  
 aatttgagg attaccagca aatgtactgt atggaatgat gctttttcaa gacagctgct 360  
 aataaaagaa gttacagcag tccctagtgt gtcagtattg catcctctaa gccctgcttc 420  
 cataagagct attaggaatt tccatacttc tccacggttt caagctgctc cggttcctct 480  
 cttgttgatg attctaaacc agtacagaag ttatttgcaa tcattgtagg caggggcata 540  
 aggaaatggt ggcagggcac ttctctctaa caagaaggaa gtagttaaag aaaatataag 600  
 gaagaataaa tggaagctat tccttggttt gagtagtttt ggattgctct ttgtggtgtt 660

ttattttact	cacctggaag	taagtccaat	cacaggaagg	agcaagctac	tattattggg	720
gaaagaacag	ttcagacttt	tatcggaact	ggaatatgaa	gcatggatgg	aagaatttaa	780
aaatgatatg	ctaactgaga	aagatgcccc	atacctggct	gttaaagaag	tgctttgtca	840
tctaattgaa	tgcaataaag	atgttccagg	gatctctcag	atcaattggg	ttattcatgt	900
ggttgattcc	ccaattatta	atgccttcgt	gcttccaaat	ggacaaatgt	ttgttttcac	960
tggattttta	aatagtgtaa	ccgatattca	tcaactttct	ttccttctgg	gccatgaaat	1020
agcacatgca	gtacttgggc	atgctgcaga	aaaggctggc	atgggttcatt	tgttggattt	1080
cctaggatg	atcttctcct	caatgatttg	ggccatttgt	cctcgagata	gcttggcact	1140
tttgtgccag	tggatacagt	ctaaattgca	ggagtatatg	tttaatagac	catacagcag	1200
aaaattggag	gccgaagctg	acaaaattgg	actactgctt	gctgcaaagg	cttgtgcaga	1260
cataagagcc	agttcagtgt	tttggcagca	aattggagttt	gttgatagcc	tgcatggcca	1320
acccaagatg	ccagaatggg	tatctacaca	cccttctcat	ggcaatcgag	ttgagtactt	1380
ggatagactt	atacctcagg	ctctcaaaat	tagagagatg	tgtaattgtc	caccactgtc	1440
taatccagac	cctcgattac	tattcaaact	cagcacgaag	catttttcttg	aagaatcaga	1500
gaaagaagac	ctaaatatca	cgaagaaaca	gaaaatggat	actcttccta	ttcaaaaaca	1560
ggagcaaata	ccattaacat	acatagtgtg	gaaaagaacg	ggcagttgaa	ttaaaattta	1620
tgagacacaa	gatatatgaa	gaatgttgca	gtccttatca	ttttatgtta	ctttttaaaa	1680
aatgatgttt	gaagtgaata	aaaaaaggat	attcagggtc	aaatcatgta	cattacagat	1740
attatctaaa	ttcttctaga	atcttatttt	catgaaatat	tgatgtattt	taatctatgt	1800
taaaatatct	tcaatgagga	aaatgtcaca	gaataaattt	atatta		1846

&lt;210&gt; 25

&lt;211&gt; 3111

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1737775

&lt;400&gt; 25

cggctcgagg	aaatcacagg	gagatgtaca	gcaatggggc	catttaagag	ttctgtgttc	60
atcttgattc	ttcaccttct	agaagggggc	ctgagtaatt	cactcattca	gctgaacaac	120
aatggctatg	aaggcattgt	cggtgcaatc	gaccccaatg	tgccagaaga	tgaaacactc	180
attcaacaaa	taaaggacat	ggtgaccag	gcactctctg	atctgtttga	agctacagga	240
aagcgatttt	atttcaaaaa	tggtgccatt	ttgattcctg	aaacatggaa	gacaaaggct	300
gactatgtga	gaccaaact	tgagacctac	aaaaatgctg	atgttctggg	tgctgagtct	360
actcctccag	gtaatgatga	accctacact	gagcagatgg	gcaactgtgg	agagaagggt	420
gaaaggatcc	acctcactcc	tgatttcatt	gcaggaaaaa	agttagctga	atatggacca	480
caaggtaggg	catttgtcca	tgagtgggct	catctacgat	ggggagtatt	tgacgagtac	540
aataatgatg	agaaattcta	cttatccaat	ggaagaatac	aagcagtaag	atgttcagca	600
ggtattactg	gtacaaatgt	agtaaagaag	tgtcaggggg	gcagctgtta	caccaaaga	660
tgcacattca	ataaagtaac	aggactctat	gaaaaaggat	gtgagtttgt	tctccaatcc	720
cgccagacgg	agaaggcttc	tataatgttt	gcacaacatg	ttgattctat	agttgaattc	780
tgtacagaac	aaaaccacaa	caaagaagct	ccaaacaagc	aaaatcaaaa	atgcaatctc	840
cgaagcacat	gggaagtgat	ccgtgattct	gaggacttta	agaaaaccac	tcctatgaca	900
acacagccac	caaatcccac	cttctcattg	ctgcagattg	gacaaagaat	tgtgtgttta	960
gtccttgaca	aatctggaag	catggcgact	ggtaaccgcc	tcaatcgact	gaatcaagca	1020
ggccagcttt	tctgtctgca	gacagttgag	ctggggctct	gggttgggat	ggtgacattt	1080
gacagtgtg	cccatgtaca	aagtgaactc	atacagataa	acagtggcag	tgacagggac	1140
acactcgcca	aaagattacc	tgacagcagc	tcaggaggga	cgcccatctg	cagcgggctt	1200
cgatcggcat	ttactgtgat	taggaagaaa	tatccaactg	atggatctga	aattgtgctg	1260
ctgacggatg	gggaagacaa	cactataagt	gggtgcttta	acgaggtcaa	acaaagtggg	1320
gcccacatcc	acacagctgc	tctggggccc	tctgcagctc	aagaactaga	ggagctgtcc	1380
aaaatgacag	gaggtttaca	gacatatgct	tcagatcaag	ttcagaacaa	tggcctcatt	1440
gatgcttttg	gggccctttc	atcaggaaat	ggagctgtct	ctcagcgctc	catccagctt	1500
gagagtaagg	gattaaccct	ccagaacagc	cagtggatga	atggcacagt	gatcgtggac	1560
agcaccgtgg	gaaaggacac	tttgtttctt	atcacctgga	caacgcagcc	tcccaaatc	1620
cttctctggg	atcccagtgg	acagaagcaa	ggtggctttg	tagtggacaa	aaacaccgaa	1680
atggcctacc	tcacaaatcc	aggcaattgc	aagggttgga	cttggaataa	cagttctcaa	1740
gcaagctcac	aaaccttgac	cctgactgtc	acgtcccgtg	cgcccaatgc	taccctgctt	1800

```
<210> 26
<211> 4117
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1794154
```

24



tatccatata ccgtaggct ggaagccatg tacgaggtca tcgaccaagg ccccatccgt 1740  
 aggatcgaga agatcaggca gaagggcttt gtccagaaat gtaaggcctc tgggtgtagag 1800  
 ggccagggtg tggcggaggg gaatgacggt ggagggggag caggaaggcc aagcctgggc 1860  
 agcgagaaga agaaaaggga cccaaggaga gcacaagtcc caccaaccag agagagtcgg 1920  
 gtgaagggtcc tgagaaaact ggccggccact gcaccagctt tgccccaacc tccctcaacc 1980  
 cccagagcca ccacccttcc tctgccccca gccacaacag tgactcgggtc caggtcccg 2040  
 gcggtaacag ttgctgcaag acctatgacc accactgcct tccccaccac gcagaggccc 2100  
 tggacccccct caccctccca caggccccct acaaccactg aggtgatcac tgccaggaga 2160  
 ccctcagttt cagagaatct ttaccctcca tcccgggaagg atcagcacag ggagaggcca 2220  
 cagacaacca ggaggcccag caaggccacc agcttgagga gcttcacaaa tgccccctcc 2280  
 accaccatct cagaacccag cacaagggtc gctggcccag gccgtttccg ggacaaccgc 2340  
 atggacaggc gggaacatgg ccaccgagac ccaaatgtgg tgccagggtcc tccaagcca 2400  
 gcaaaggaga aacctcccaa aaagaaggcc caggacaaaa ttcttagtaa tgagtatgag 2460  
 gagaagtatg acctcagccg gcctactgcc tctcagctgg aggacgagct gcaggtgggg 2520  
 aatgttcccc ttaaaaaagc aaaggagtct aaaaagcatg aaaagcttga gaaaccagag 2580  
 aaggagaaga aaaaaaagat gaagaatgag aacgcagaca agttacttaa gagtgaagaa 2640  
 caaatgaaga agtctgagaa aaagagcaag caagagaaag agaagagcaa gaagaaaaa 2700  
 ggaggtaaaa cagaacagga tggctatcag aaaccacca acaaacactt cagcgagagt 2760  
 cccaagaagt cagtggccga cctgctgggg tcctttgaag gcaaacgaag actccttctg 2820  
 atcactgctc ccaaggctga gaacaatatg tatgtgcaac aacgtgatga atatctggaa 2880  
 agtttctgca agatggctac caggaaaatc tctgtgatca ccacttctcg ccctgtcaac 2940  
 aacagcacca tgaaaatcga ccactttcag ctagataatg agaagcccat gcgagtgggt 3000  
 gatgatgaag acttggtaga ccagcgtctc atcagcgagc tgaggaaaga gtacggaatg 3060  
 acctacaatg acttcttcat ggtgctaaca gatgtggatc tgagagtcaa gcaatactat 3120  
 gaggtaccaa taacaatgaa gtctgtgttt gatctgatcg atactttcca gtcccgatc 3180  
 aaagatatgg agaagcagaa gaaggagggc attgtttgca aagaggacaa aaagcagtc 3240  
 ctggagaact tcctatccag gttccgggtg aggaggaggt tgctgggtgat ctctgtcct 3300  
 aacgatgaag actgggccta ttcacagcag ctctctgccc tcagtgggtc ggcggtgcaat 3360  
 tttggtctgc gccacataac cattctgaag cttttaggcg ttggagagga agttggggga 3420  
 gtgttagaac tgttcccaat taatgggagc tctgttgttg agcgagaaga cgtaccagcc 3480  
 catttggtga aagacattcg taactatttt caagtgagcc cggagtactt ctccatgctt 3540  
 ctagtccgaa aagacggaaa tgtcaaatcc tggtatcctt ccccaatgtg gtccatggtg 3600  
 attgtgtacg atttaattga ttcgatgcaa cttcggagac aggaaatggc gattcagcag 3660  
 tcactgggga tgcgctgccc agaagatgag tatgcaggct atggttacca tagttaccac 3720  
 caaggatacc aggatgggta ccaggatgac taccgatc atgagagtta tcaccatgga 3780  
 tacccttact gagcagaaat atgtaacctt agactcagcc agtttccctc gcagctgcta 3840  
 aaactacatg tggccagctc cattcttcca cactgcgtac tacatttccct gcctttttct 3900  
 ttcagtggtt ttctaagact aaataaatag caaactttca cctattcatg agttattatt 3960  
 gaaacctcaa atcataaaga catttaaaag aattgttttt ctaactggag gggctctagt 4020  
 gctaaataat agtactgaaa attgatatta ttttcccttt cttatatgaa ggaccttatt 4080  
 tggcatataa aattttataa aatatgtaaa aaaaaaa 4117

<210> 27  
 <211> 2173  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2027624

<220>  
 <221> unsure  
 <222> 2160  
 <223> a, t, c, g, or other

<400> 27  
 ggcattggcgg cggtatgcc gcttgctctg ctgctcctgt tgctcctggg gcccgggcggc 60  
 tgggtgccttg cagaaccccc acgcgacagc ctgctgggagg aacttgtcat cccccgctg 120  
 ccttcggggg acgtagccgc cacattccag ttccgcacgc gctgggattc ggagcttcag 180  
 cgggaaggag tgtcccatta caggctcttt cccaaagccc tggggcagct gatctccaag 240

```

tattctctac gggagctgca cctgtcattc acacaaggct tttggaggac ccgatactgg 300
gggccaccct tcctgcaggc cccatcagggt gcagagctgt gggctctgggt ccaagacact 360
gtcactgatg tggataaaatc ttggaaggag ctcagtaatg tcctctcagg gatcttctgc 420
gcctctctca acttcacga ctcaccaac acagtcactc ccactgcctc cttcaaacc 480
ctgggtctgg ccaatgacac tgaccactac tttctgcgct atgctgtgct gccgcgggag 540
gtggctctgca ccgaaaacct caccctctgg aagaagctct tgccctgtag ttccaaggca 600
ggcctctctg tgctgctgaa ggcagatcgc ttgttccaca ccagctacca ctcccaggca 660
gtgcatatcc gccctgtttg cagaaatgca cgctgtacta gcctctctct ggagctgagg 720
cagaccctgt cagttgtatt tgatgccttc atcacggggc agggaaagaa agactgggtc 780
ctcttcggga tgttctcccg aacctcaccg gagccctgcc ccctggcttc agagagccga 840
gtctatgtgg acatcaccac ctacaaccag gacaacgaga cattagaggt gacccaccc 900
ccgaccacta catatcagga cgtcatccta ggactcggga agacctatgc catctatgac 960
ttgcttgaca ccgccatgat caacaactct cgaaacctca acatccagct caagtggaag 1020
agacccccag agaatgaggc cccccagtg cccttctctg atgcccagcg gtacgtgagt 1080
ggctatgggc tgcagaaggg ggagctgagc aactgtctgt acaacaccca ccataaccg 1140
gccttcccg tctgtctgct ggacaccgta ccctggtatc tgcggctgta tgtgcacacc 1200
ctcacatca cctccaagg caaggagaac aaaccaagtt acatccacta ccagcctgcc 1260
caggaccggc tgcaaccca cctcctggag atgtgtatc agctgccggc caactcagtc 1320
accaaggttt ccattcagtt tgagcgggag ctgtgtgaag ggaccgagta cagccagat 1380
cctaaccatg gcttctatgt cagcccatct gctctcagcg ccctgtgtcc cagcatggta 1440
gcagccaagc cagtggactg ggaagagagt cccctcttca acagcctgtt ccagctctct 1500
gatggctcta actactttgt gcggctctac acggagccgc tgctggtgaa cctgccgaca 1560
ccggacttca gcatgcccta caacgtgatc tgcctcacgt gactgtggt ggccgtgtgc 1620
tacggctcct tctacaatct cctcaccgga accttccaca tcgaggagcc ccgcacaggt 1680
ggcctggcca agcggctggc caaccttacc cggcgcgccc gaggtgtccc cccactctga 1740
ttcttgccct ttccagcagc tgcagctgcc gtttctctct ggggagggga gcccaagggc 1800
tgtttctgcc acttgctctc ctcagagtgt gcttttgaac caagtgtccc tggaccaggt 1860
cagggcctac agctgtgttg tccagtacag gagccacgag ccaaagtgtg catttgaatt 1920
tgaattaaact tagaaattca tttcctcacc tgtagtggcc acctctatat tgagtgctc 1980
aataagcaaa agtggtcggt ggctgtgtga ttggacagca cagaaaaaga tttccatcac 2040
cacagaaagg tcggctggca gcactggcca aggtgatggg gtgtgttaca cagtgtatgt 2100
cactgtgtag tggatggagt ttactgtttg tggaataaaa acggctgttt ccgtgaaan 2160
aaaaaaaaa agg 2173

```

```

<210> 28
<211> 1209
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2057213

```

```

<220>
<221> unsure
<222> 94, 116, 1098, 1133, 1151, 1162, 1187, 1195, 1205
<223> a, t, c, g, or other

```

```

<400> 28
ccggggacgc ggggtcaggc caccgcgttg gcaggccgct gcaggtaggc aagccccac 60
caggcgccat ggactggaag acactccagg ccnaatgag cccccaac aagtantcca 120
cagcgttcgg gcgcactctg ctgtccgtgg tgttcgtctt ccgggtgctg gtatacgtgg 180
tggctgcaga gcgcgtgtgg ggggatgagc agaaggactt tgactgcaac accaagcagc 240
ccggctgcac caacgtctgc tacgacaact acttcccat ctccaacatc cgctctggtg 300
ccctgcagct catcttcgtc acatgcccct cgctgtgtgt catcctgcac gtggcctacc 360
gtgaggagcg ggagcgccgg caccgccaga aacacgggga ccagtgcgcc aagctgtacg 420
acaacgcagg caagaagcac ggaggcctgt ggtggacct cctgttcagc ctcatcttca 480
agctcatcat tgagtctctc ttctctacc tgctgcacac tctctggcat ggcttcaata 540
tgccgcgctt ggtgcagtgt gccaacatgg cccctgccc caacctcgtg gactgtaca 600
ttgcccagcc taccgagaag aaaatcttca cctacttcat ggtgggcgcc tccgcgtct 660
gcatcgtact caccatctgt gagctctgct acctcatctg ccacagggtc ctgcgaggcc 720

```

PF-0489-1 CON

tgcacaagga	caagcctcga	ggggggttgca	gcccctcgtc	ctccgccagc	cgagcttcca	780
cctgccgctg	ccaccacaag	ctgggtggagg	ctgggggaggt	ggatccagac	ccagggaata	840
acaagctgca	ggcttcagca	cccaacctga	cccccatctg	accacagggc	aggggtgggg	900
caacatgcgg	gctgccaatg	ggacatgcag	ggcgggtgtgg	caggtggaga	ggctctacag	960
gggctgagtg	acccactct	gagttcacta	agttatgcaa	ctttcgtttt	ggcagatatt	1020
ttttgacact	gggaactggg	ctgtctagcc	gggtataggt	aaccacaggg	cccagtgcca	1080
gccctcaaag	gacatagnct	tttgaacaa	gcgaattaac	tatcctaagc	tgntcgcaaa	1140
ggggcaacta	ngggcactgt	angcaaggct	ttaaccaagg	aaggggntca	acccnaggaa	1200
agggntggt						1209

<210> 29  
<211> 653  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2073804

<400> 29	
actcgagcga	attcggctcg
aggaaaccca	gcaggcggcg
aagatggcgg	agaacagcgg
60	
tcgcgccggc	aagagcagcg
ggagcggcgc	ggggaagggg
gcggtgtccg	cagagcaggt
120	
gattgctggc	ttcaaccgcc
ttcggcagga	acagcgaggc
ctggcatcca	aagcagctga
180	
gttgagatg	gagttgaatg
agcacagcct	agtgatcgat
acactgaagg	aggtagatga
240	
aactcgtaag	tgctaccgca
tgggttgagg	agtgtctggt
gagcgaactg	tcaaagaggt
300	
gctgccgct	ttggagaaca
acaaggagca	gatacagaag
atcattgaga	cactgacaca
360	
gcagcttcag	gcaaagggaa
aagaactaaa	tgaattcccg
gaaaagcaca	acattcgtct
420	
catgggagaa	gatgagaagc
cagcagccaa	ggaaaactca
gaaggggctg	gggctaaggc
480	
cagctcagct	ggagtgttgg
tctcctaggg	accaaggcct
ttgcattttt	ttctaccctg
540	
actccactt	ctaattttct
tttattgtta	ttattattat
tttctctgct	attgtaatat
600	
ttttttgtta	attaaatggt
ttggtcagaa	aaaaaaaaaa
aaaaaaaaaa	aaaaaaaaaa
agg	653

<210> 30  
<211> 1632  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2175401

<400> 30	
ttgcagtagt	gttagactga
agataaagta	agtgtctgtt
gggctaacag	gatctctctt
60	
tgtagtctgc	agcccaggac
gctgattcca	gcagcgcctt
accgcgacc	cgaagattca
120	
ctatggtgaa	aatcgcttct
aataccccct	ccgccgtgca
aaaggaggag	gcgcggcaag
180	
acgtggaggc	cctcctgagc
cgcacggtca	gaactcagat
actgaccggc	aaggagctcc
240	
gagttgccac	ccaggaaaaa
gagggctcct	ctgggagatg
tatgcttact	ctcttaggcc
300	
tttcattcat	cctggcagga
cttattgttg	gtggagcctg
catttacaag	tacttcatgc
360	
ccaagagcac	cattttaccgt
ggagagatgt	gcttttttga
ttctgaggat	cctgcaaatt
420	
cccttcgtgg	aggagagcct
aacttctctg	ctgtgactga
ggaggctgac	attcgtgagg
480	
atgacaacat	tgcaatcatt
gatgtgcctg	tccccagttt
ctctgatagt	gacctgcaag
540	
caattattca	tgactttgaa
aagggaatga	ctgcttacct
ggacttggtg	ctgggggaact
600	
gctatctgat	gcccctcaat
acttctattg	ttatgcctcc
aaaaaatctg	gtagagctct
660	
ttggcaaac	gctgagtgga
agatatctgc	ctcaaaactta
tgtgtgtcga	gaagacctag
720	
ttgctgtgga	ggaaattcgt
gatgttagta	accttggcat
ctttatttac	caactttgca
780	
ataacagaaa	gtccttccgc
cttcgtcgca	gagacctctt
gctgggtttc	aacaaacgtg
840	
ccattgataa	atgctggaag
attagacact	tccccaacga
atattattgt	gagaccaaga
900	
tctgtcaaga	gtaagaggca
acagatagag	tgtccttggt
aataagaagt	cagagattta
960	
caatatgact	tttaacattaa
ggtttatggg	atactcaaga
tatttactca	tgcaattact
1020	
ctattgctta	tgttttaaaa
aaaggaaaaa	tactaaccac
tgcaagctct	1080
tgtcaaat	tagtttaatt
ggcatttgct	gttttttgaa
actgaaatta	catgagttcc
1140	

PF-0489-1 CON

```
attttttctt tgaatttata gggtttagat ttctgaaagc agcatgaata tatcacctaa 1200
catcctgaca ataaattcca tccgttggtt tttttgtttg tttgtttttt cttttccttt 1260
aagtaagctc tttattcatc ttatgggtga gcaattttaa aatttgaaat atttttaaatt 1320
gtttttgaac tttttgtgta aaatatatca gatctcaaca ttgttggttt cttttgtttt 1380
tcattttgta caactttctt gaatttagaa attacatctt tgcagttctg ttaggtgctc 1440
tgtaattaac ctgacttata tgtgaacaat tttcatgaga cagtcatttt taactaatgc 1500
agtgattctt tctcactact atctgtattg tggaaatgcac aaaattgtgt aggtgctgaa 1560
tgctgtaagg agtttaggtt gtatgaattc tacaacccta taataaattt tactctatac 1620
aaaaaaaaaa aa 1632
```

<210> 31  
<211> 1175  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2741580

<220>  
<221> unsure  
<222> 959  
<223> a, t, c, g, or other

```
<400> 31
cggtgccgga gcgcgagcag agcggagacc cccaggctct gcgggcgcgg aatatacctgg 60
aaccttcttt tgtttgtcag cagccaaggt gtttccagga agttcagaga gaacagaatt 120
taagaagtgc aacatggcca ggggcccgcct ctgctgcttg aagtacatga tgttcctctt 180
caatttgata ttctggctct gtggctgtgg gctgctggga gtgggcatct ggctctccgt 240
gtcccaaggc aactttgcca ctttctcccc cagcttccct tcgttggttg cagccaacct 300
ggtcattgcc ataggcacca ttgtcatggg gacgggcttc ctcggctgcc tgggggccc 360
caaggaaaac aagtgcctcc tctcagctt ttccatcgtc ctgttggtca tcctcctagc 420
agagctgata ttactcatcc tcttctttgt ctacatggac aagggtgaacg agaacgcaa 480
gaaggacctg aaggaaggcc tgctgctgta ccacaccgag aacaacgtgg ggctgaagaa 540
cgcctggaac atcatccagg ctgagatgcg atgctgtggt gtcactgact acacagactg 600
gtacccagtg ctgggggaga acacggttcc cgaccgctgc tgcattggaga actcccagg 660
ctgcgggccc aacgccacca cgcctttgtg gagaacgggc tgctatgaaa aggtgaagat 720
gtggttcgat ggcaataagc acgtgctggg cgcgggtggg atgtgcatcc tcatcatgca 780
gatcctgggc atggccttct ccatgacctt cttccagcac atccaccgga ctggtgaaga 840
gtacgacgca tgagcgggct ggccgggagt gcccaccccg ccctgctgcc ctgtggaggg 900
aagacgattg agctttgtgt cgcctgcctg cgcctccag atatgatccc tgcaccanc 960
ccccacagcc tgccctaccc cacctacctt cgcctcagccc tcggacttct caagtgggtg 1020
gagtggcaag ggagcgacga ggcacatcgg cagacctggg ggctcggggg ccccttgga 1080
tttcctgcy atctgcataa atgcgtattt tgccaaaatg accgacaggg ctggggctcg 1140
gggttccgct cttggaggga atcccccggt caatt 1175
```

<210> 32  
<211> 2358  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2779610

```
<400> 32
tctcagttgt ggacgctcgt aagttttcgg cagtttccgg ggagactcgg ggactccgcy 60
tctcgtcttc tgtgttccaa tcgcccgggt cgggtgtgca ggtctcggg ctagtcatgg 120
cgtccccgtc tcggagactg cagactaaac cagtcattac ttgtttcaag agcgttctgc 180
taatctacac ttttatttct tggatcactg cgttatcctt tcttgagttt ggcatttggg 240
gcaagggtgag cctggagaat tacttttctc ttttaaataa gaaggccacc aatgtccctt 300
```

```

tcgtgctcat  tgctactggg  accgtcatta  ttcttttggg  cacctttggt  tgttttgcta  360
cctgccgagc  ttctgcatgg  atgctaaaac  tgtatgcaat  gtttctgact  ctcgtttttt  420
tggtcgaact  ggtcgctgcc  atcgtaggat  ttgttttcag  acatgagatt  aagaacagct  480
ttaagaataa  ttatgagaag  gctttgaagc  agtataactc  tacaggagat  tatagaagcc  540
atgcagtaga  caagatccaa  aatacgttgc  attgttgttg  tgtcacccgat  tatagagatt  600
ggacagatac  taattattac  tcagaaaaag  gatttcctaa  gagttgctgt  aaacttgaag  660
attgtactcc  acagagagat  gcagacaaag  taaacaatga  aggttggttt  ataaaggtga  720
tgaccattat  agagtcagaa  atgggagtcg  ttgcaggaat  ttcctttgga  gttgcttgct  780
tccaactgat  tggaatcttt  ctgcctact  gcctctctcg  tgccataaca  aataaccagt  840
atgagatagt  gtaacccaat  gtatctgtgg  gcttattcct  ctctaccttt  aaggacattt  900
agggtcctcc  ctgtgaatta  gaaagttgct  tggctggaga  actgacaaca  ctacttactg  960
atagaccaa  aaactacacc  agtaggttga  ttcaatcaag  atgtatgtag  acctaaaact  1020
acaccaatag  gctgattcaa  tcaagatccg  tgctcgcagt  gggctgattc  aatcaagatg  1080
tatgtttgct  atgttctaag  tccaccttct  atcccatcca  tgtagatcg  ttgaaacctt  1140
gtatccctct  gaaacactgg  aagagctagt  aaattgtaaa  tgaagtaata  ctgtgttctt  1200
cttgactggt  atttttctta  gtatgggggc  tttggaaggc  actgtgaatt  tgctattttg  1260
atgtagtgtt  acaagatgga  aaattgattc  ctctgacttt  gctattgatg  tagtgtgata  1320
gaaaattcac  cctctgaac  tggctccttc  ccagtcagg  ttatctggtt  tgattgtata  1380
atttgcacca  agaagttaaa  atgttttatg  actctctgtt  ctgctgacag  gcagagagtc  1440
acattgtgta  atttaatttc  agtcagtcaa  tagatggcat  cctcatcag  gggtgccaga  1500
tggtgataac  agtgtaaggc  cttgggtcta  aggcattcac  gactggaagg  gactactgat  1560
gttctgtgat  acatcagggt  tcagcacaca  acttacattt  ctttgctctc  aaattgaggc  1620
atatttatg  atgttcatac  ttccctctt  gtttgaaagt  ttctaattat  taaatgggtg  1680
cggaattggt  gtattttcct  taggaattca  gtggaactta  tcttcattaa  atttagctgg  1740
taccagggtg  atatgacttg  tcaatattat  ggtcaacttt  aagtcttagt  tttcgtttgt  1800
gcctttgatt  aataagtata  actcttatac  aataaatact  gctttcctct  aaaaagatcg  1860
tgtttaaat  aacttgtaga  aaatctgctg  gaatgggtgt  tgttttccac  tgagaaagct  1920
aagccctaca  tttctattca  gagtactggt  ttttagatgt  aaatataagc  ctgcggcctt  1980
aactctgtat  taaaaaaaat  gtttttgggt  aaaaaaaact  gttcccatag  gtgcagcaaa  2040
ccaccatggc  acatgtatac  ctatgtaaac  aaactgcaca  ttctgcacat  gtatcccaga  2100
acttaatgta  aacaaaaaaa  tcttaaagtg  caaatattaa  aaaaaactgt  tctctgtgaa  2160
aaaaattata  ttccatgtta  taaagtagca  tatgactagt  gttctcctag  agatcagact  2220
tttttgattg  tatagtttgc  attaaaaagt  tgtacaggga  gggatgtaac  ctgtatcttc  2280
aggataatag  ggaaattaat  aaggaaaaata  ataattacta  aaatttgagt  tgaagtcagg  2340
gaaaaaaaa  aaaaaaaaa  2358

```

```

<210> 33
<211> 1573
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 2879792

```

```

<400> 33
gctgtgcggc  ctctcgcgg  gccgagtc  gccgagcacg  tccccacgt  cctctcttc  60
tcgccactta  ttattttat  gttttccaa  agaagcgact  agggaccaa  gtttaaaaat  120
tctctcccc  acccaatgc  agacgtggc  agatcccatc  caacacacg  tttaattctt  180
atggggctct  gggatcaaaa  gaacagaa  agcaacaaca  aaagcccag  cgctgtctga  240
ttttaagctg  gcaaagtgg  aaaaataaa  tgttgagtaa  acagaccaag  ttggatcatg  300
gggaatttca  gaggtcatg  cctccctga  accttctttt  ttattattgg  tctttgggtg  360
tgtacaaa  gtattctga  gtatattct  aaaaagcaaa  agcgaacctg  ctatcttggt  420
tccaaaacat  tattctatc  attgaaatt  ttggaggaa  ttacaatagt  tggcatggct  480
ttaactggca  tggctgggg  gcagtttat  cctggagggc  cccatctgat  gttatatgac  540
tataaacaag  gtcactggaa  tcaactcct  ggctggcatc  atttcacat  gtatttcttc  600
tttgggctgt  tgggtgtgg  agatatctt  tgtttcacca  tcagttcact  tctgtgtcc  660
ttaaccaagt  taatgttgt  aaatgcctt  tttgtggagg  ctttatctt  ctacaaccac  720
actcatggcc  gggaaatgt  ggacatctt  gtgcaccagc  tgctggtttt  ggtcgtcttt  780
ctgacaggcc  ctgttgcct  cctgttcgga  acaatgtact  tctggagcta  840
ttgcgggtcaa  gtctcattct  gcttcagggg  agctggttct  ttcagattgg  atttgtcctg  900

```

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

```
<210> 34
<211> 929
<212> DNA
<213> Homo sapiens
```

<400>	34						
gtg	cgg	g	c	c	c	c	60
ggc	c	t	g	c	g	g	120
t	c	g	g	c	c	g	180
t	c	a	g	g	a	t	240
g	c	c	c	c	c	a	300
g	t	g	c	c	t	c	360
g	t	a	t	t	g	c	420
g	c	t	t	a	c	a	480
t	c	a	a	c	t	t	540
c	a	g	c	t	t	c	600
g	a	c	t	c	a	t	660
a	g	c	a	t	g	g	720
a	t	g	a	a	a	a	780
t	t	t	t	a	a	c	840
g	a	g	t	a	c	g	900
c	t	a	a	c	a	c	929